Name_____

Compound It!

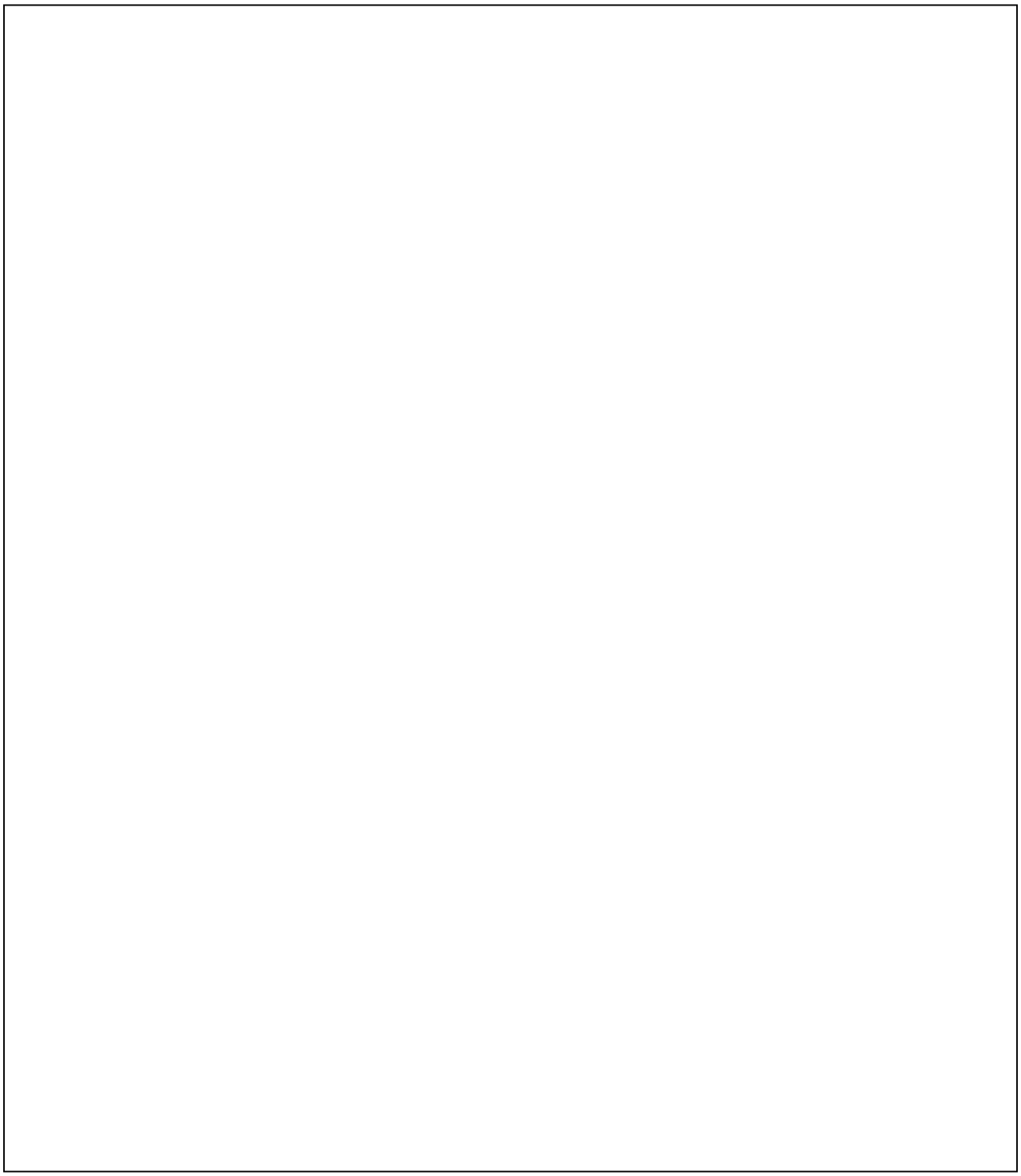
You are engineers. Each member of your team must have a job. Some can have two jobs.

Team Member	Job	Responsibilities
	Team leader	Makes sure everyone participates and listens to others.
	Materials Engineer	Keeps track of all materials; asks teacher for extra things; cleans up
	Detailer	Draws each part of the machine so it can be built well.
	Recorder	Helps keep track of answers to questions and helps team members prepare their presentations.
	Technician	In charge of putting the machine together; delegates jobs to others.
	Quality Control	Checks that all parts work correctly and tests the machine.

Choose one of these ideas or another that you discuss with your teacher:

- Build a carousel that turns with a crank.
- Build a Ferris wheel that rotates with a crank.
- Build a measuring device that lowers a weight to see how deep a hole is.
- Build a catapult that shoots a wad of paper and rolls.
- Build a car that runs on a big rubber band.
- Build a puppet stage with a curtain that moves with a pull cord.
- Build a roller coaster that shoots a marble with a rubber band and it goes down a ramp.

Draw your first idea here:



Questions to Discuss:

What simple machines are in your machine? Tell what each simple machine does.

What worked?

What did not work?

What were some problems you encountered?

Did you have to change your strategy after you started?

What did you do that finally made your machine work the way you wanted it to?

Student Evaluation Sheet

1. Did the group introduce all members? Yes □ No □

   Comments: _____

2. Did the group explain what they were going to be talking about? Yes □ No □

   Comments: _____

3. Were all six simple machines displayed? Yes □ No □

   Comments: _____

4. Did the group have two examples of each simple machine? Yes □ No □

   Comments: _____

5. Were at least two examples of compound machines displayed? Yes □ No □

   Comments: _____

6. For the compound machines, were the simple machines used to make each one identified? Yes □ No □

   Comments: _____

7. Was the group prepared to answer your questions about their project?
   Yes □ No □

   Comments: _____